

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
7 October 2004 (07.10.2004)

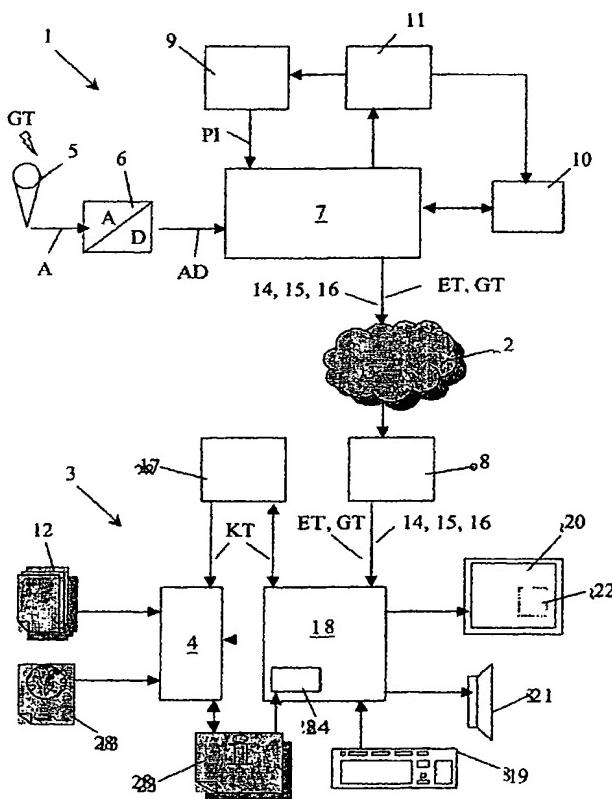
PCT

(10) International Publication Number  
**WO 2004/086359 A3**

- (51) International Patent Classification<sup>7</sup>: **G10L 15/26, G06F 17/27**
- (21) International Application Number: **PCT/IB2004/050297**
- (22) International Filing Date: **22 March 2004 (22.03.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
03100782.6      26 March 2003 (26.03.2003) EP
- (71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH [DE/DE]**; Stein-damm 94, D-20099 Hamburg (DE).
- (71) Applicant (for all designated States except DE, US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BARTOSIK, Heinrich [AT/AT]; Triester Strasse 64, A-1101 Vienna (AT). MEYER, Carsten [DE/DE]; c/o Triester Strasse 64, A-1101 Vienna (AT).**
- (74) Agent: **RÖGGLA, Harald; Philips Intellectual Property & Standards, Triester Strasse 64, A-1101 Vienna (AT).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

*[Continued on next page]*

(54) Title: SYSTEM FOR SPEECH RECOGNITION AND CORRECTION, CORRECTION DEVICE AND METHOD FOR CREATING A LEXICON OF ALTERNATIVES



(57) Abstract: In a speech recognition and correction system which comprises at least one speech recognition device (1) to which a spoken text (GT) can be fed, it being possible for said spoken text to be transcribe into a recognized text (ET), and a correction device (3) for correcting the text (ET) recognized by the at least one speech recognition device (1), said correction device being connected to the at least one speech recognition device (1) via a data network (2) for the transmission of the recognized text (ET) and where appropriate of the spoken text (GT), the correction device (3) has a lexicon of alternatives (23) which contains word parts, words and word sequences that can be displayed (22) by the correction device (3) as alternatives to individual word parts, words and word sequences of the recognized text.

WO 2004/086359 A3



TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

- (88) **Date of publication of the international search report:**  
13 January 2005

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/050297

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G10L15/26 G06F17/27

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G10L G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/31634 A (QENM COM INC) 3 May 2001 (2001-05-03) abstract page 2, line 7 - line 20 page 3, line 25 - line 34 page 7, line 1 - line 6 page 13, line 4 - line 8 page 14, line 4 - line 8 page 15, line 17 - line 31 claims 1,2,12,13 ----- -/-	1
Y		6

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

8 July 2004

Date of mailing of the international search report

15. 11. 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo-nl,  
Fax: (+31-70) 340-3016

Authorized officer

Santos Luque, R

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB2004/050297

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-6

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6

Speech recognition and correction system comprising a speech recognizer and a correction device connected via a data network, in which the correction device displays alternatives to passages of the recognized text.

---

2. claims: 7-16

Method of creating a lexicon of alternatives.

---

**INTERNATIONAL SEARCH REPORT**International Application No  
**PCT/IB2004/050297****C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 836 144 A (MICROSOFT CORP) 15 April 1998 (1998-04-15) abstract column 4, line 12 – line 38 column 5, line 27 – line 53 column 6, line 55 – column 7, line 8 column 7, line 30 – line 37 column 11, line 3 – line 6 -----	2-5
Y		6
A	US 2002/002459 A1 (LEWIS ET AL) 3 January 2002 (2002-01-03) abstract page 4, paragraphs 42,45 page 5, paragraph 49 page 7, paragraph 69 -----	1-6

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/IB2004/050297

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0131634	A	03-05-2001	AU WO	1238601 A 0131634 A1		08-05-2001 03-05-2001
EP 0836144	A	15-04-1998	US CN EP JP US	5999896 A 1172992 A 0836144 A2 10078964 A 6360197 B1		07-12-1999 11-02-1998 15-04-1998 24-03-1998 19-03-2002
US 2002002459	A1	03-01-2002	CA US	2307300 A1 2003200093 A1		11-12-2000 23-10-2003